| | 1^ | PT Bor'NATION UK KIT 2006 | | | | | | | | |
|---|---|---|--|--|--|--|--|--|--|--|
| FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. TRANSMITTAL LETTER TO THE UNIT | 293000US40PCT | | | | | | | | | |
| DESIGNATED/ELECTED OFFICE (DO/ | U.S. APPLICATION NQ. (If known, see 37 CFR 1.5) | | | | | | | | | |
| CONCERNING A SUBMISSION UNDER | 10/588//4 | | | | | | | | | |
| | TONAL FILING DATE | PRIORITY DATE CLAIMED June 15, 2004 earliest | | | | | | | | |
| PCT/JP05/11399 June 19 | 5, 2005 | Julie 15, 2004 earliest | | | | | | | | |
| HEAT EXCHANGER | | | | | | | | | | |
| | | | | | | | | | | |
| APPLICANT(S) FOR DO/EO/US Shigeharu ICHIYANAGI, et al. | | | | | | | | | | |
| Applicant herewith submits to the United States Designated/ | Elected Office (DO/EO/US) t | the following items and other information: | | | | | | | | |
| 1. This is a FIRST submission of items concerning a | submission under 35 U.S.C. | 371. | | | | | | | | |
| 2. This is a SECOND or SUBSEQUENT submission | | | | | | | | | | |
| This is an express request to begin national examination (9) and (24) indicated below. | nation procedures (35 U.S.C | 2. 371(f)). The submission must include items (5), (6), | | | | | | | | |
| 4. The US has been elected (Article 31). | | | | | | | | | | |
| 5. A copy of the International Application as filed (35 | U.S.C. 371(c)(2)) | | | | | | | | | |
| a. is attached hereto (required only if not c | ommunicated by the Internat | tional Bureau). | | | | | | | | |
| b. has been communicated by the Internat | ional Bureau. | | | | | | | | | |
| c. is not required, as the application was fi | ed in the United States Rece | eiving Office (RO/US). | | | | | | | | |
| 6. An English language translation of the International | Application as filed (35 U.S | S.C. 371(c)(2)). | | | | | | | | |
| a. is attached hereto. | | | | | | | | | | |
| b. has been previously submitted under 35 | U.S.C. 154(d)(4). | | | | | | | | | |
| Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) | | | | | | | | | | |
| a. are attached hereto (required only if not | communicated by the Interna | ational Bureau). | | | | | | | | |
| b. have been communicated by the Interna | itional Bureau. | | | | | | | | | |
| c. have not been made; however, the time | limit for making such amend | lments has NOT expired. | | | | | | | | |
| d. have not been made and will not be made | d. have not been made and will not be made. | | | | | | | | | |
| 8. An English language translation of the amendment | ts to the claims under PCT A | rticle 19 (35 U.S.C. 371(c)(3)). | | | | | | | | |
| 9. An oath or declaration of the inventor(s) (35 U.S.C | . 371(c)(4)). | | | | | | | | | |
| a. If the declaration is in a language other t translation is accurate (37 CFR 1.69) | han the English language, it | is accompanied by an English translation. The | | | | | | | | |
| 10. An English language translation of the annexes of 371 (c)(5)). | the International Preliminary | Examination Report under PCT Article 36 (35 U.S.C. | | | | | | | | |
| 11. A copy of the International Preliminary Examination | n Report (PCT/IPEA/409). | | | | | | | | | |
| 12. A copy of the International Search Report (PCT/IS. | A/210). | | | | | | | | | |
| Items 13 to 23 below concern document(s) or inform | | | | | | | | | | |
| An Information Disclosure Statement under 37 CFI | _ | | | | | | | | | |
| a. PTO-1449 b. Cited References (2 | · | · — | | | | | | | | |
| 14. An assignment document for recording. A separate | e cover sneet in compliance v | with 37 CFR 3.28 and 3.31 is included. | | | | | | | | |
| 15. A FIRST preliminary amendment. | | | | | | | | | | |
| 16. A SECOND or SUBSEQUENT preliminary amends | nent. | | | | | | | | | |
| 17. An Application Data Sheet under 37 CFR 1.76. | | | | | | | | | | |
| 18. A substitute specification. | _ | | | | | | | | | |
| 19. A power of attorney and/or change of address letter | | - 4342 and 37 OFD 4 204 4 205 | | | | | | | | |
| 20. A computer-readable form of the sequence listing | | | | | | | | | | |
| 21. A second copy of the published International Application 22. A second copy of the English language translation | | | | | | | | | | |
| | | on under 35 U.S.C. 154(d)(4). | | | | | | | | |
| 23. Other items or information: Notice of Priority (2)/Po | J1/10/304 | | | | | | | | | |

IAP11 Rec'd PCT/PTO 08 AUG 2006

| U.S. APPLICATION N | 8 7 7 4 | PCT/JP05/ | 11399 | | 293000US40PCT | | | |
|---|---|--------------------------------|---|-----------------------------|---|--|--|--|
| The following fees | | 1. 0.70. 007 | 11000 | CALCULATIONS | PTO USE ONLY | | | |
| 24. Basic natio | nal fee | \$300.00 | | | | | | |
| 25. Examination | n fee | Ψ300.00 | | | | | | |
| If the written opinion p prepared by IPEA/I | repared by ISA/US or the JS indicates all claims sa | • | | | | | | |
| 26. Search fee | | | | | | | | |
| | f the ISA/US or the Interr JS indicates all claims sa | | | | | | | |
| | .445(a)(2)) has been paid Searching Authority | | | | | | | |
| International Search R | eport prepared by an ISA | A other than the US and | provided to the Office | | | | | |
| | unicated to the US by the | | | | | | | |
| | | | | \$400.00 | | | | |
| | 24, 25 AND 26 = | | | \$900.00 | | | | |
| sequence listing | r specification and drawir or computer program lised dditional 50 sheets of pap | ting filed in an electronic | | | | | | |
| i i | ra Sheets Number | of each additional 50 or | I DAIL | | | | | |
| | traction the | reof (round up to a who | ie | | | | | |
| - 100 = | / 50 = | - | x \$250.00 | \$ | | | | |
| | 30.00 for furnishing any of fer the date of commence | | | . \$ | | | | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | | | | |
| Total claims | 11 - 20 = | 0 | x \$50.00 | \$0.00 | | | | |
| Independent claims | 1 - 3= | 0 | x \$200.00 | \$0.00 | | | | |
| MULTIPLE DEPENDE | NT CLAIMS (if applicable | e) 🗌 | + \$360.00 | \$ | | | | |
| | TO | TAL OF ABOVE C | ALCULATIONS = | \$900.00 | | | | |
| Applicant claims | small entity status. See | 37 CFR 1.27. Fees abo | ve are reduced by 1/2 | | | | | |
| | | | SUBTOTAL = | \$900.00 | | | | |
| | of \$130.00 for furnishing to claimed priority date (37 | | ter than 30 months + | \$ | | | | |
| | | TOTAL N | IATIONAL FEE = | \$900.00 | | | | |
| | g the enclosed assignment an appropriate cover sho | | | \$ | | | | |
| Petition fee of \$1 | 1,500.00 for Petition to Re | evive (37 CFR 1.137 (b) |). + | \$ | | | | |
| | | TOTAL FEE | S ENCLOSED = | \$900.00 | | | | |
| | | | | Amount to be refunded: | \$ | | | |
| | | | | Amount to be | | | | |
| | | | | charged: | \$ | | | |
| a. A check in the | e amount of \$ to co | ver the above fees is en | closed. | | | | | |
| b. Please charge | e my Deposit Account No | . <u>15-0030</u> in the amount | of \$ to cover the | e above fees. | | | | |
| | s hereby authorized to ch A duplicate copy of this s | | s which may be require | ed, or credit any overpayme | nt to Deposit Account | | | |
| d. Fees are to be be included of | e charged to a credit card on this form. Provide cre | . WARNING: Information and | on on this form may be authorization on PTO | come public. Credit card is | nformation should not | | | |
| NOTE: Where an ap | propriate time limit und | er 37 CFR 1.495 has n | ot been met, a petitio | n to revive (37 CFR 1.137 | (a) or (b)) must be | | | |
| SEND ALL CORRESP | estore the International | | а | | | | | |
| | | | | Juwch Sor | Los | | | |
| CUSTOMER N | UNBEK | | SIGNATURE | <u> </u> | | | | |
| 22850 | | | Richard D. Ko | | elly Surinder Sachar Registration No. 34,423 | | | |
| Tel. (703) 413-3000 Fax. (703) 413-222 | | | , | | | | | |
| (OSMMN 1/06) | | JMBER | | | | | | |

Page 2 of 2

PCT/US1/REV06

10/588774 IAP11 Rec'd PCT/PTO 08 AUG 2006

Docket No. 293000US40PCT

IN RE APPLICATION OF: Shigeharu ICHIYANAGI, et al.

- SERIAL NO: New U.S. PCT Application Based on PCT/JP05/11399

FILED:

Herewith

FOR:

HEAT EXCHANGER

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

Transmitted herewith is an amendment in the above-identified application.

- No additional fee is required
- ☐ Small entity status of this application under 37 C.F.R. §1.9 and §1.27 is claimed.
- Additional documents filed herewith:

PCT Transmittal Letter/Application Data Sheet/Notice of Priority (2)/Declaration Preliminary Amendment/PCT/IB/304/Information Disclosure Statement/PTO-1449

International Search Report/References Cited (2)

Credit Card Payment Form for \$900.00

International Preliminary Report on Patentability

The Fee has been calculated as shown below:

| CLAIMS | CLAIMS REMAINING | | HIGHEST NUMBER PREVIOUSLY PAID | NO. EXTRA CLAIMS | | RATE | | CALCULATIONS |
|-------------|---|-----------------------------|---|------------------------|---|--------|--------|--------------|
| TOTAL | 11 | MINUS | 20 | 0 | х | \$50 | = | \$0.00 |
| INDEPENDENT | 1 | MINUS | 3 | 0 | x | \$200 | = | \$0.00 |
| | Ţ. | ☐ MULTIPLE DEPENDENT CLAIMS | | | | \$360 | 11 | \$0.00 |
| × (2) | | TOTAL OF ABOVE CALCULATIONS | | | | | | \$0.00 |
| * | ☐ Reduction by 50% for filing by Small Entity | | | | | | \$0.00 | |
| | TOTAL | | | | | \$0.00 | | |

| | A c | heck | in t | he | amount | of | ` <u>\$0.00</u> | is | attac. | hed | l. |
|--|-----|------|------|----|--------|----|-----------------|----|--------|-----|----|
|--|-----|------|------|----|--------|----|-----------------|----|--------|-----|----|

- ☐ Credit card payment form is attached to cover the fees in the amount of \$0.00
- Please charge any additional Fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.
- If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time may be charged to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Richard D. Kelly

Registration No. 27,757

Customer Number

22850

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